

APPENDIX A

**SOIL BORING LOGS
AND WELL CONSTRUCTION DIAGRAMS**

CDW CONSULTANTS, INC.

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.
 BORING ID: GP1-7MW
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hdspace (ppm)	
0	S1		0'	40"	0	
-1					0.1	
-2					2	
-3					0.0	
-4					4	
-5	S2		5'	48"	0.1	
-6					6	
-7					0.1	
-8					8	
-9					0.3	
-10	S3		10'	60"	10	
-11					0.9	
-12					12	
-13					0.6	
-14					14	
-15	S4		15'		0.1	
-16					16	
-17					0.0	
-18					18	
-19					0.0	
-20			20'	20		
End of Boring at 20 feet; No Refusal						
Groundwater Measurements						Summary
Date	Time	Depth to Groundwater	Measuring Point	Overburden: Fill; Sand		
				Rock: NA		
				Well Depth: NA		
				Boring: 20'		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-1
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	60"	0	
-1					0.0	
-2					2	
-3					0.5	
-4					4	
-5	S2	5'	48"		0.1	
-6					6	
-7					6	
-8					0.9	
-9					8	
-10	S3	10'	60"	10		
-11					0.0	
-12					12	Approximate Water Table
-13					0.0	gray fine to silty fine SAND, trace medium sand, trace coarse sand; wet
-14					14	
-15	S4	15'		0.1		End of Boring at 15 feet; No Refusal
-16					15	
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-2
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	48"	0	
-1					0.1	
-2					2	
-3					2	
-4					0.0	
-5	S2	5'	48"		4	
-6					0.1	
-7					6	
-8					0.1	
-9					8	
-10	S3	10'	60"	10	0.1	
-11					0.3	
-12					10	
-13					12	
-14					12	
-15	S4	15'			14	
-16					14	
-17					0.1	
-18					15	
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client:	City of Waltham	BORING ID:	GP3-3
Location:	240 Beaver St	Logged By:	AMS
Completed:	5/12/2022	Contractor:	Soil Ex
Ground El.		Sheet #:	1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	42"	0	
-1					0.1	
-2					2	
-3					2	
-4					1.4	
-5	S2	5'	48"		4	
-6					2.2	
-7					6	
-8					6	
-9					0.9	
-10	S3	10'	48"		8	
-11					0.1	
-12					10	
-13					0.0	
-14					12	Approximate Water Table
-15	S4	15'			0.0	trace coarse sand; wet
-16					14	
-17					0.0	
-18					15	
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-4
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	48"	0	
-1					0.1	
-2					2	
-3					2	
-4					0.0	
-5	S2	5'	48"		4	
-6					0.1	
-7					6	
-8					6	
-9					0.1	
-10	S3	10'	60"	10'	8	
-11					0.3	
-12					10	
-13					12	Approximate Water Table
-14					12	
-15	S4	15'			14	
-16					15	
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-5
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample				Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	
				PID Hdspace (ppmv)	
0	S1		0'	40"	0
-1					0.1
-2					2
-3					3.7
-4					4
-5	S2	5'	48"	7.8	brown to black fine to silty fine SAND, layered broken brick, concrete, tan fine sand. ash layers; dry (FILL) note: building materials of pasty caulk, glass and metals pieces
-6				6	
-7				6	
-8				4.2	black fine to medium SAND with ash and broken concrete and coal pieces; dry
-9				8	
-10	S3	10'	60"	10	black tan fine to silty fine SAND, gray silt seams; moist
-11				0.8	gray silty fine SAND, trace medium sand moist to wet
-12				12	Approximate Water Table
-13				0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; wet
-14				14	
-15	S4	15'		14	End of Boring at 15 feet; No Refusal
-16				0.0	
-17				15	
-18					
-19					
-20					
Groundwater Measurements					Summary
Date	Time	Depth to Groundwater	Measuring Point		Overburden: Fill; Sand
					Rock: NA
					Well Depth: NA
					Boring: 15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client:	City of Waltham	BORING ID:	GP3-6
Location:	240 Beaver St	Logged By:	AMS
Completed:	5/12/2022	Contractor:	Soil Ex
Ground El.		Sheet #:	1

Depth (Feet)	Sample					Sample Description	Well Diagram			
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hyspace (ppmv)					
0	S1		0'	48"	0					
-1					0.1					
-2					2					
-3					2.2					
-4					4					
-5	S2	5'	48"		0.5					
-6					6					
-7					0.1					
-8					8					
-9					0.3					
-10	S3	10'	60"	10						
-11					0.9					
-12					12	Approximate Water Table				
-13					0.6	gray fine to silty fine SAND, trace coarse sand with gravel pieces; wet				
-14					14					
-15	S4	15'		0.1	15	End of Boring at 15 feet; No Refusal				
-16										
-17										
-18										
-19										
-20										
Groundwater Measurements					Summary					
Date	Time	Depth to Groundwater	Measuring Point	Overburden: Fill; Sand						
				Rock: NA						
				Well Depth: NA						
				Boring: 15'						

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-7
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	50"	0	
-1					0.1	
-2					2	
-3					0.1	
-4					4	
-5	S2	5'	48"		0.2	
-6					6	
-7					0.1	
-8					8	
-9					0.1	
-10	S3	10'	60"	10		
-11					0.0	
-12					12	
-13					0.0	
-14					14	
-15	S4	15'			0.0	
-16					15	
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-8
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample					Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hdspace (ppmv)	
0	S1		0'	48"	0	
-1					0.0	
-2					2	
-3					0.0	
-4					4	
-5	S2	5'	48"		1.2	
-6					6	
-7					2.9	
-8					8	
-9					0.3	
-10	S3	10'	60"	10		
-11					0.4	
-12					12	
-13					0.0	
-14					14	
-15	S4	15'			0.0	
-16					15	
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830.20
 Total Depth: 15'
 Date Started: 5/12/2022
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/12/2022
 Ground El.
 BORING ID: GP3-9
 Logged By: AMS
 Contractor: Soil Ex
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	42"	0	
-1					0.0	
-2					2	
-3					2	
-4					0.4	
					4	
-5	S2	5'	5'	48"	1.9	
-6					6	
-7					6	
-8					0.9	
-9					8	
-10	S3	10'	10'	48"	0.3	
-11					10	
-12					10	
-13					0.0	
-14					12	
-15	S4	15'	15'		0.0	
-16					14	
-17					14	
-18					0.0	
-19					15	
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-1
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hdspace (ppmv)		
0	S1		0'	40"	0		
-1					0.1		
-2					2		
-3					2		
-4					0.0		
					4		
-5	S2	5'	48"		0.1		
-6					6		
-7					6		
-8					0.1		
-9					8		
					8		
-10	S3	10'	60"	10	0.3		
-11					10		
-12					12	Approximate Water Table	
-13					12	gray fine to silty fine SAND, trace medium sand, with broken glass, concrete pieces; dry (FILL)	
-14					14		
-15	S4	15'				See Above	
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements					Summary		
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand	
					Rock:	NA	
					Well Depth:	NA	
					Boring:	15'	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-2
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Holespace (ppmv)		
0	S1		0'	40"	0		
-1					0.1		
-2					2		
-3					0.0		
-4					4		
-5	S2	5'	48"		0.1		
-6					6		
-7					6		
-8					0.1		
-9					8		
-10	S3	10'	60"	10	0.3		
-11					10		
-12					12	Approximate Water Table	
-13					12	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet	
-14					14		
-15		15'				End of Boring at 15 feet; No Refusal	
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater	Measuring Point			Overburden:	Fill; Sand
						Rock:	NA
						Well Depth:	NA
						Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-3
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hdspace (ppmv)	
0	S1		0'	40"	0	
-1					0.0	
-2					2	
-3					0.0	
-4					4	
-5	S2	5'	48"	0.9		
-6					6	
-7					1.2	
-8					8	
-9					0.7	
-10	S3	10'	40"	10		
-11					0.2	
-12					12	Approximate Water Table
-13					0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet
-14					14	
-15		15'				End of Boring at 15 feet; No Refusal
-16						
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-4
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	40"	0	
-1					0.0	
-2					2	
-3					0.0	
-4					4	
-5	S2		5'	48"	0.9	
-6					6	
-7					1.2	
-8					8	
-9					0.7	
-10	S3		10'	40"	10	
-11					0.2	
-12					12	
-13					0.1	
-14					14	
-15			15'			End of Boring at 15 feet; No Refusal
-16						
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-5
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Sample Description	Well Diagram			
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Holespace (ppmv)					
0	S1		0'	40"	0					
-1					0.0					
-2					2					
-3					0.9					
-4					4					
			5'		0.1					
-5	S2		5'	48"	6					
-6					6					
-7					0.6	black fine to silty fine SAND, trace medium sand with broken glass, metal, clay (FILL)				
-8					8					
-9					0.4					
			10'		10					
-10	S3		10'	40"	10	gray to black fine SAND, little gravel, trace silt with wood; moist (FILL)				
-11					0.0					
-12					12	Approximate Water Table				
-13					0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet				
-14					14					
-15			15'			End of Boring at 15 feet; No Refusal				
-16										
-17										
-18										
-19										
-20										
Groundwater Measurements					Summary					
Date	Time	Depth to Groundwater	Measuring Point	Overburden: Fill; Sand						
				Rock: NA						
				Well Depth: NA						
				Boring: 15'						

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-6
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Sample Description	Well Diagram			
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hdspace (ppmv)					
0	S1		0'	40"	0					
-1					0.0					
-2					2					
-3					0.0					
-4					4					
-5	S2	5'	48"		0.1					
-6					6					
-7					0.0					
-8					8					
-9					1.6					
-10	S3	10'	45"	10						
-11					0.0					
-12					12	Approximate Water Table				
-13					0.1					
-14					14					
-15		15'				gray fine to silty fine SAND, trace medium sand, with broken glass; moist; dry (FILL)				
-16										
-17										
-18										
-19										
-20										
Groundwater Measurements					Summary					
Date	Time	Depth to Groundwater	Measuring Point	Overburden: Fill; Sand						
				Rock: NA						
				Well Depth: NA						
				Boring: 15'						

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-7
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery		
0	S1		0'	40"	0	black asphalt and graded base
-1					0.0	
-2					2	
-3					2	
-4					1.3	
-5	S2		5'	48"	4	
-6					1.1	
-7					6	
-8					0.9	
-9					8	
-10	S3		10'	60"	0.3	
-11					10	
-12					2.6	
-13					12	
-14					12	
-15			15'		1.3	
-16					14	
-17						
-18						
-19						
-20						
Groundwater Measurements					Summary	
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand
					Rock:	NA
					Well Depth:	NA
					Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 15 ft
 Date Started: 12/9/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 12/9/2019
 Ground El.
 BORING ID: GP4-8
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery	PID Hdspace (ppmv)		
0	S1		0'	48"	0	black asphalt and graded base	
-1					0.0		
-2					2	tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)	
-3					0.0		
-4					4	tan to gray fine to silty fine SAND, little medium sand; dry (FILL)	
-5	S2	5'	40"		5		
-6					6		
-7					6	black fine to silty fine SAND, trace medium sand, with wood, dry (FILL)	
-8					8		
-9					8	see above with 6" concrete layer	
-10	S3	10'	48"	10	10		
-11					10		
-12					12	black fine to silty fine SAND, trace medium sand, trace coarse sand; moist to wet (FILL)	
-13					12		
-14					14		
-15			15'			End of Boring at 15 feet; No Refusal	
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements					Summary		
Date	Time	Depth to Groundwater	Measuring Point		Overburden:	Fill; Sand	
					Rock:	NA	
					Well Depth:	NA	
					Boring:	15'	